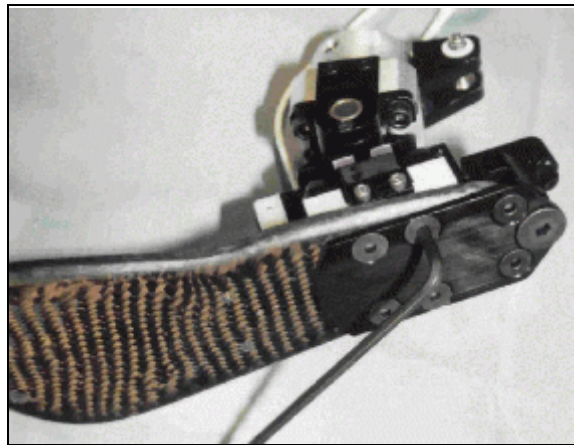


25. Position the Ankle / Achilles Mounting Plate (T1FTM210) below the sole plate with the counter sinks toward the bottom of the foot skin. The pointed end of the plate indicates the heel section. Attach the Lower Achilles Mounting Post (T1FTM311) to the top of the sole plate in the heel area using two 1/4-20 x 7/8" FHSCS {5/32} and one 3/8-16 x 3/4" FHSCS {7/32}, as shown in **Figure 3.26**. The radius cut-out on the bottom of the Lower Achilles Mounting Post should fit tightly against the composite sole plate.



**Figure #3.26 - Attach Achilles Mount Post**

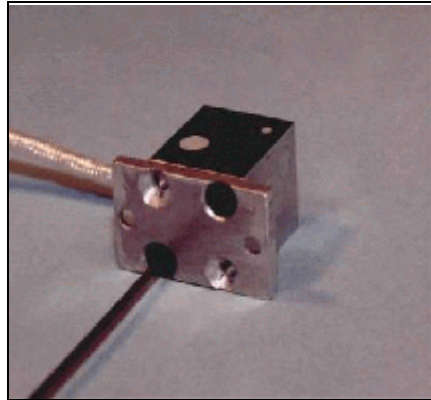
26. The mechanical ankle assembly is attached to the Composite Sole Plate (T1FTM010) by positioning the ankle assembly using four 1/4-20 x 5/8" FHSCS {5/32} which pass through the front four countersunk holes of the Ankle / Achilles Mounting Plate and through the sole plate, as shown in **Figure 3.27**.



**Figure #3.27 - Attach Ankle Assembly**

27. A Triaxial Accelerometer unit can be attached to a mounting plate which will be attached to the sole plate of the molded foot assembly. The THOR-LX / HIIIr foot has been designed to accept mounting plates for both the triaxial cube and tri-pack accelerometer configurations. The mounting procedure for each type of triaxial accelerometer is explained in detail below:

Triaxial Cube type accelerometers: Refer to drawing T1FTM000 for additional details. This type of triaxial accelerometer is a one piece unit (T1INM120). The unit is attached to the Foot Triaxial Mounting Plate (T1FTM013) using two #4-40 x 1/4" FHSCS {1/16}, as shown in **Figure 3.28**. The stamped markings on the unit are oriented in the following manner: +X forward, +Y is left, +Z up. The polarity of the Y and Z axes must be reversed to reflect the SAE J211 convention.



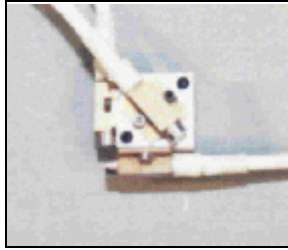
**Figure #3.28** - Attach Triaxial to mounting plate

The Triaxial Mounting Plate is mounted at the front of the ankle cavity in the molded foot using two #4-40 x 1/4" FHSCS {1/16}, as shown in **Figure 3.29**.



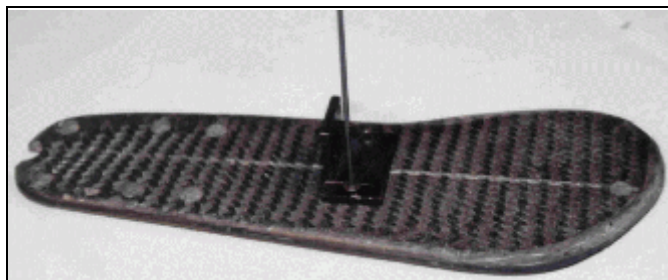
**Figure #3.29** - Attach Triaxial Plate

Tri-Pack type accelerometers: Refer to drawing T1LFTM000 for additional details. This type of triaxial accelerometer consists of a Tri-Pack Block (T1INM130) which holds three uniaxial accelerometers (T1INM110) on the outer surface. The three uniaxial accelerometers are mounted on the tri-pack block using six #0-80 x 1/4" SHCS {0.05}. The orientation of the accelerometer units is +X forward, +Y Right, +Z Down, as shown in **Figure 3.30**.



**Figure #3.30** - Tri-Pack Mounting Block

The Foot Tri-Pack Mounting Plate (T1FTM012) is mounted onto the composite sole plate using two #4-40 x 1/4" FHSCS {1/16}, as shown in **Figure 3.31**.



**Figure #3.31** - Tri-Pack Mounting Plate on Sole

The instrumented Tri-Pack block is mounted to the front of the Foot Tri-Pack Mounting Plate using two #2-56 x 9/16" SHCS {5/64}, as shown in **Figure 3.32**.



**Figure #3.32** - Tri-Pack